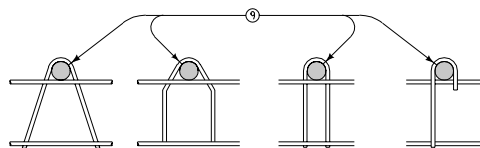
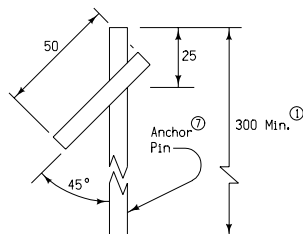


SECTION THRU EXPANSION JOINT



OPTIONAL LEG ASSEMBLIES



ANCHOR PIN DETAILS

JOINT OPENING AND EXPANSION TUBE EXTENSION		
Joint Type	(X)	Minimum Tube Length
"ED"	25 mm	152 mm
"EE"	50 mm	178 mm
"EF"	100 mm	229 mm

DOWEL HEIGHT AND DIAMETER		
(T)	(DH) (6)	Diameter
180-190 mm	90 mm	20 mm
200-240 mm	110 mm	30 mm
250-290 mm	135 mm	35 mm
300-330 mm	160 mm	35 mm

Pavement Width	No. of Dowels
3.6 m	11
4.2 m	13

GENERAL NOTES:

Details hereon are for the fabrication of a expansion joint dowel assembly.

Dowel bars shall be 457 mm long with a tolerance of ± 3 mm. The centerline of individual dowels shall be parallel to the other dowels in the assembly within ± 3 mm.

All dowels shall be saw cut on both ends or sheared on both ends if deformation is less than 1 mm out of round.

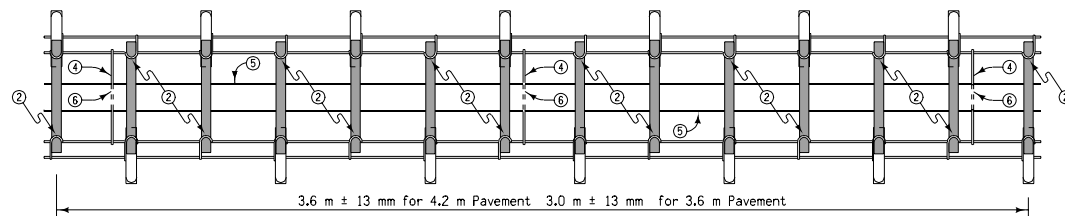
The dowels shall be round bars and conform to ASTM A 663M Grade 415 or higher, ASTM A 675M Grade 415 or higher, or ASTM A 615M Grade 300 or higher.

Dowels shall be epoxy coated to conform to AASHTO M 254 Type B coating with a thickness of 0.18 ± 0.05 mils after cure. The cut ends shall be free from burrs and projections and need not be coated.

The entire assembly, after fabrication, shall be dipped in a bituminous bond breaker or a paraffin based bond breaker prior to delivery to the work site. The bond breaker shall meet the requirements of standard specification 4137, 4138, or 4140. The application method shall be approved by the Office of Materials.

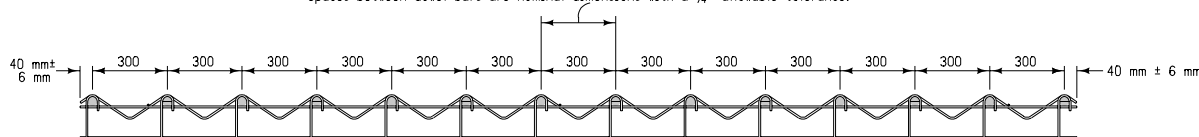
Wire sizes shown are minimum required, and the wire shall have a minimum tensile strength of 345 MPa.

- (1) (8) anchor pins minimum required, 4 per side. Anchor pins shall be a minimum 300 mm long and shall prevent movement of assembly during construction.
- (2) Weld alternately thru-out.
- (3) #1/0 gage (8 mm) wire
- (4) (3) #10 gage (4 mm) wire minimum, tie wire welded or friction fit to top longitudinal wire, both sides.
- (5) 6 mm dia. wire minimum
- (6) Clip and remove center portion of tie during field assembly.
- (7) Pins shall be a minimum of #1/0 gage (8 mm) wire.
- (8) Measured from the centerline of dowel bar to bottom of support wire ± 6 mm.
- (9) Diameter of bend around dowel is dowel diameter + 3 mm to 5 mm.




PLAN VIEW

Spaces between dowel bars are nominal dimensions with a $\frac{1}{4}$ " allowable tolerance.



ELEVATION

All dimensions given in millimeters unless noted.

METRIC VERSION	M 	
	Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN	RH-56
	REVISION: Corrected Dimensions in Plan View. Clarify Tolerances in Elevation View.	REVISION NO. 3
	APPROVED BY <i>William J. Skan</i> DESIGN METHODS ENGINEER	REVISION DATE 04-15-03

FABRICATION DETAILS
EXPANSION JOINT
DOWEL ASSEMBLY